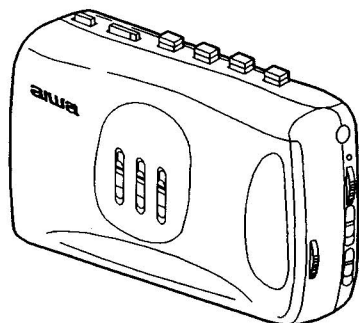


aiwa



STEREO RADIO
CASSETTE PLAYER

HS-TA323
HS-TA317
HS-TA314W
HS-TA317W
HS-T28MK3

- BASIC TAPE MECHANISM : OZM - 2N
- TYPE. Y,YL,YK,YZ (323) YU (314W)
Y (317),YU (317W),Y (T28MK3)

SPECIFICATIONS

Frequency range:	FM: 87.5-108 MHz AM: 530-1705 kHz (HS-TA314W/ TA317W) 530-1605 kHz (HS-TA323/TA317/ T28MK3)
Maximum output:	20mW + 20mW (EIAJ/16Ω) 15mW + 15mW (EIAJ/32Ω)
Power source:	Battery DC 3V, R6P (LR6, SUM-3, AA) X2 Domestic AC power (using optional AC adaptor: AIWA AC-620/AC-300)
Battery life:	Using manganese batteries (R6P, SUM-3, AA) Approx. 4 hours (EIAJ, 1mW output, playback mode) Using alkaline batteries (LR6, AM-3,AA) Approx. 8 hours (EIAJ, 1mW output, playback mode)
Maximum dimensions: (W X H X D)	89.7 X 120.4 X 37.2 mm (3 ⁵ / ₈ X 4 ³ / ₄ X 1 ¹ / ₂ inches)
Weight:	Approx. 206g, 0.45 lbs (including batteries)

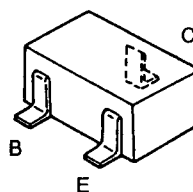
- Design and specifications are subject to change without notice.

MANUAL
SERVICE

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC				L1	87-005-724-089		COIL, 3.3UH J SP02
	87-001-351-089	IC, AN6612S		L2	87-005-724-089		COIL, 3.3UH J SP02
	87-002-677-089	IC, TA2002F		L3	87-005-724-089		COIL, 3.3UH J SP02
	87-001-379-089	IC, TA8122AF		L4	87-005-730-089		COIL, 10UH J SP02
TRANSISTOR				L101	83-HRG-602-019		BAR ANT, MW
	87-026-264-089	C-TR, RN1411		L102	83-HRJ-608-019		COIL, RF FM
	89-112-964-089	TR, 2SA1296Y		L103	83-HRG-604-019		COIL, FM OSC
MAIN C. B				L104	87-007-309-019		COIL, OSC AM
BPF101	87-030-312-019	FLTR, GFMB3-1-T		L105	87-008-475-019		COIL, IFT AM
C1	87-010-573-089	C-CAP, S 390P-50 UJ		R35	87-022-042-089		C-RES, M W/F 0.51-1/8
C2	87-010-573-089	C-CAP, S 390P-50 UJ		SFR3	87-024-622-019		SFR 1K DIAG V
C3	87-010-573-089	C-CAP, S 390P-50 UJ		SW1	87-036-323-019		SW, SL 2-2-2
C4	87-010-573-089	C-CAP, S 390P-50 UJ		TC101	87-011-246-019		TUN-CAP, 7.5-20P
C5	87-010-498-049	CAP, E 10-16 GAS		TC102	87-011-246-019		TUN-CAP, 7.5-20P
C6	87-010-498-049	CAP, E 10-16 GAS		TC103	87-011-246-019		TUN-CAP, 7.5-20P
C7	87-010-180-089	C-CAP, S 1500P-50 B		TC104	87-011-246-019		TUN-CAP, 7.5-20P
C8	87-010-180-089	C-CAP, S 1500P-50 B		TH1	87-026-256-090		THERMIST, HT-100
C9	87-010-195-089	C-CAP, S 0.068-25 F		VC101	87-011-246-019		TUN-CAP, 7.5-20P
C10	87-010-195-089	C-CAP, S 0.068-25 F		VC102	87-011-246-019		TUN-CAP, 7.5-20P
C11	87-010-196-089	C-CAP, S 0.1-25 F		VC103	87-011-246-019		TUN-CAP, 7.5-20P
C12	87-010-196-089	C-CAP, S 0.1-25 F		VC104	87-011-246-019		TUN-CAP, 7.5-20P
C13	87-010-179-089	C-CAP, S 1200P-50 B		VR1	83-HRC-609-019		VR, 20KX2
C14	87-010-179-089	C-CAP, S 1200P-50 B		G-EQ C. B			
C15	87-010-499-049	CAP, E 22-6.3 GAS			83-HRG-605-019		G-EQ ASSY(SB)
C16	87-010-497-049	CAP, E 4.7-35 GAS		HEAD FLEX. C. B			
C17	87-010-452-089	C-CAP, 1-16 F			81-HK6-606-019		HEAD FLEX C. B
C18	87-010-450-089	C-CAP, 0.47-16 F		PH	81-HK6-604-019		HEAD PH ASSY(W/PCB-C)
C19	87-010-422-079	CAP, TN 22-3.15 S89		MISCELLANEOUS			
C20	87-010-503-049	CAP, E 220-4 GAS		M1	87-045-300-019		MOTOR(BDH3B)
C21	87-010-452-089	C-CAP, 1-16 F		SW2	87-036-110-019		SW, PUSH SPPB 62
C22	87-010-450-089	C-CAP, 0.47-16 F		SW3	87-036-322-019		SW, SL 2-2-3
C23	87-010-450-089	C-CAP, 0.47-16 F		SW5	87-036-110-019		SW, PUSH SPPB 62
C40	87-010-495-049	CAP, E 2.2-50 GAS					
C41	87-010-493-049	CAP, E 0.47-50 GAS					
C101	87-010-328-089	C-CAP, S 5P-50 UJ(YU)					
C101	87-010-330-089	C-CAP, S 7P-50 UJ(EXCEPT YU)					
C102	87-012-150-089	C-CAP, S 20P-50 CH					
C103	87-010-315-089	C-CAP, S 27P-50 CH					
C104	87-010-333-089	C-CAP, S 10P-50UJ(YU)					
C104	87-010-331-089	C-CAP, S 8P-50UJ(YU)					
C105	87-010-197-089	C-CAP, S 0.01-25 B					
C106	87-010-313-089	C-CAP, S 18P-50 CH					
C107	87-010-172-089	C-CAP, S 330P-50 SL					
C108	87-012-141-089	C-CAP, S 0.22-16 F					
C109	87-010-196-089	C-CAP, S 0.1-25 F					
C110	87-010-195-089	C-CAP, S 0.068-25 F					
C111	87-010-196-089	C-CAP, S 0.1-25 F					
C112	87-010-178-089	C-CAP, S 1000P-50 B					
C113	87-010-500-049	CAP, E 33-4V					
C114	87-010-452-089	C-CAP, 1-16 F					
C116	87-010-501-048	CAP, E 47-4 GAS					
C117	87-010-193-089	C-CAP, S 0.033-25 F					
C118	87-010-193-089	C-CAP, S 0.033-25 F					
C119	87-010-196-089	C-CAP, S 0.1-25 F					
C120	87-010-196-089	C-CAP, S 0.1-25 F					
C121	87-012-140-089	C-CAP, S 470P-50 CH					
C130	87-010-196-089	C-CAP, S 0.1-25 F					
C131	87-010-322-089	C-CAP, S 100P-50 CH					
CF101	87-008-284-019	FLTR, PFB 468J					
CF102	87-030-314-019	FLTR KIT 10.7M					
CF103	87-030-314-019	FLTR KIT 10.7M					
CF104	87-030-200-019	VIB, CER CSB 456 F16 2M					
D2	87-017-026-019	LED, KLR 226 RED					
J1	87-099-375-019	JACK, DC 3.8					
J2	87-049-861-019	JACK, 3.5 ST 2.5MM BK					

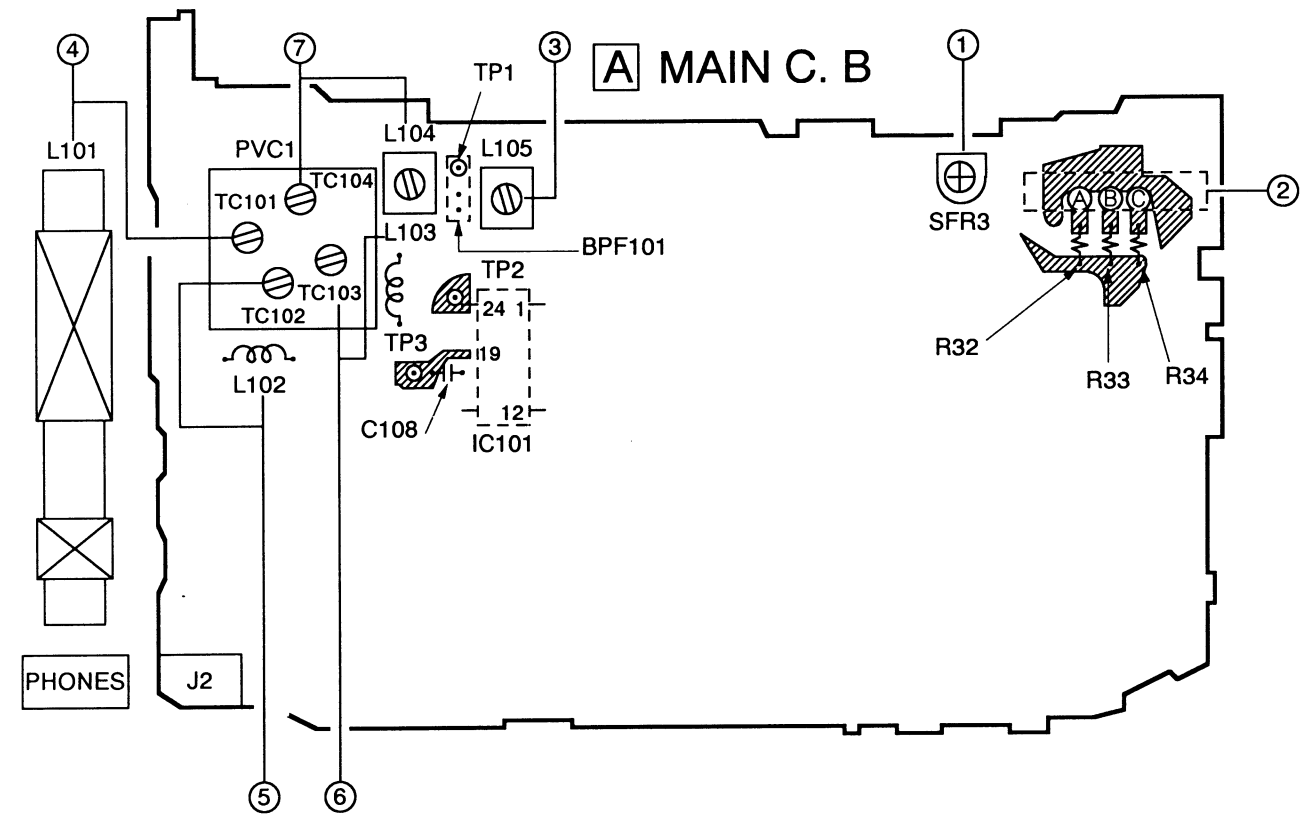


RN1411



2SA1296

ADJUSTMENT



< TAPE PLAYER SECTION >

1. Tape Speed Adjustment

Settings: •Test tape: TTA-100

•Test point: PHONES JACK(J2)

•Adjustment location: SFR3

Method: Play back the test tape, adjust for 3000Hz $\pm$ 10Hz at FWD and less than 50Hz REV.

2. Motor load Adjustment

Refer to the REF No. SI-88-037-OP of service technical information.

< RADIO SECTION >

3. AM IF Adjustment

L105 468kHz

4. AM Tracking Adjustment

L101 600kHz

TC101 1400kHz

5. FM Tracking Adjustment

L102 88.0MHz

TC102 108.0MHz

6. FM Freq. Range Adjustment

L103 87.4MHz(Z only)

L103 87.0MHz(except Z)

TC103 108.3MHz(Z only)

TC103 108.5MHz(except Z)

7. AM Freq. Range Adjustment

L104 515kHz(except U)

L104 517kHz(U only)

TC104 1650kHz(except U)

TC104 1750kHz(U only)

PRACTICAL SERVICE FIGRE

< RADIO SECTION >

Sensitivity :

(IHF, THD 3%) FM Less than 19dB (98MHz)

(S/N 10dB) AM Less than 54dB (1000kHz)

Intermediate frequency : FM 10.7MHz

AM 468kHz

FM stereo separation : FM More than 20dB

< TAPE SECTION >

Wow & flutter : Less than 0.5%

Pinch roller press : 125g~160g

Take-up torque : 23~45g-cm

F.F torque : More than 90g-cm

Rew torque : More than 90g-cm

Back tension : 3.5 $\pm$ 1.5g-cm (FWD)

3.0 $\pm$ 1.5g-cm (REV)

S/N ratio : More than 43dB (DC)

Distortion : Less than 3.0% (DC)

Less than 10.0% (REC/PB)

Noise level : Less than 7.0mV

(Vol MAX, PB)

Less than 18.0mV

(Vol MAX, REC/PB)

Frequency response : 63Hz~8kHz $\pm$ 3dB (NORMAL)

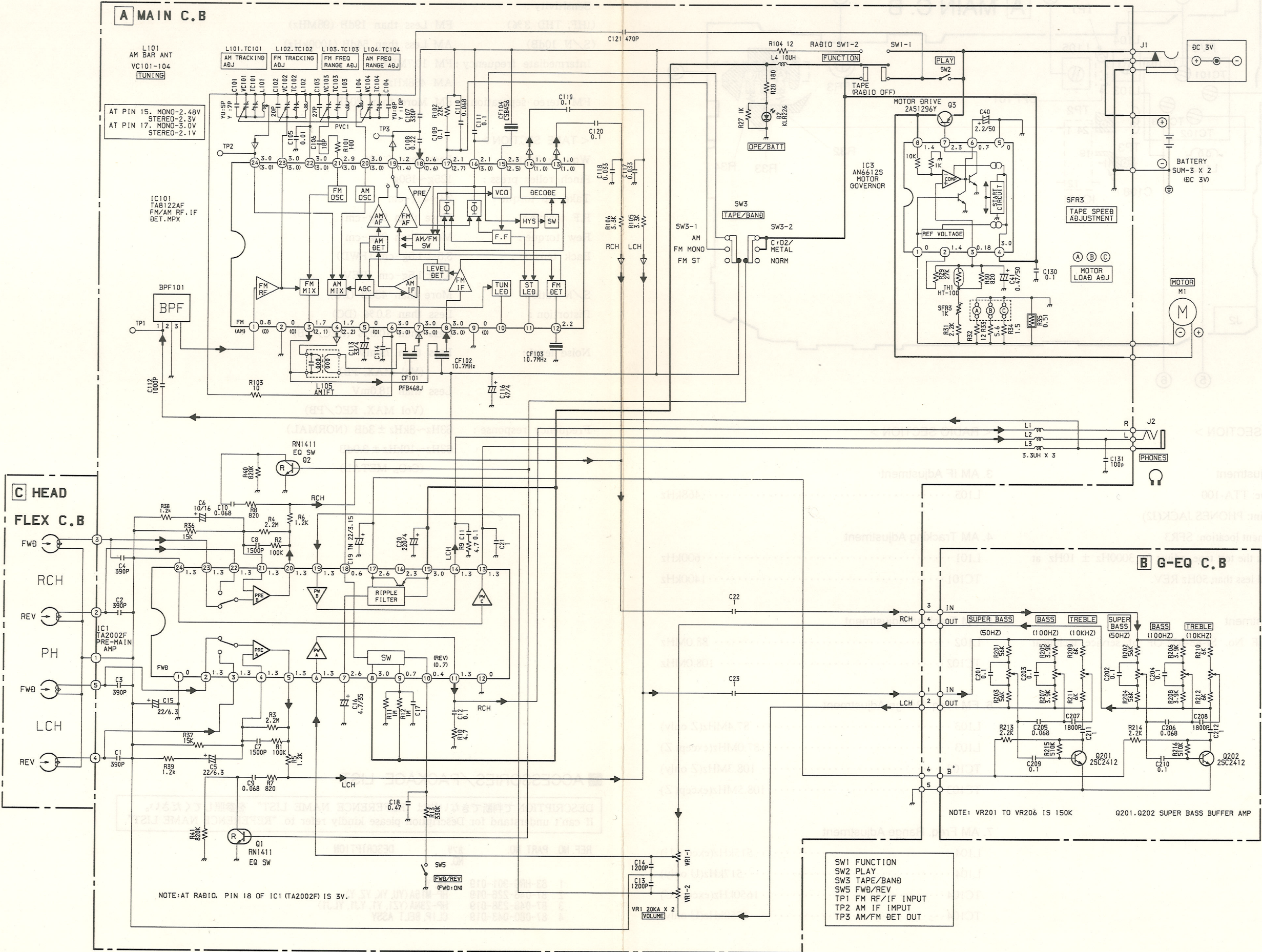
63Hz~10kHz $\pm$ 3.0dB

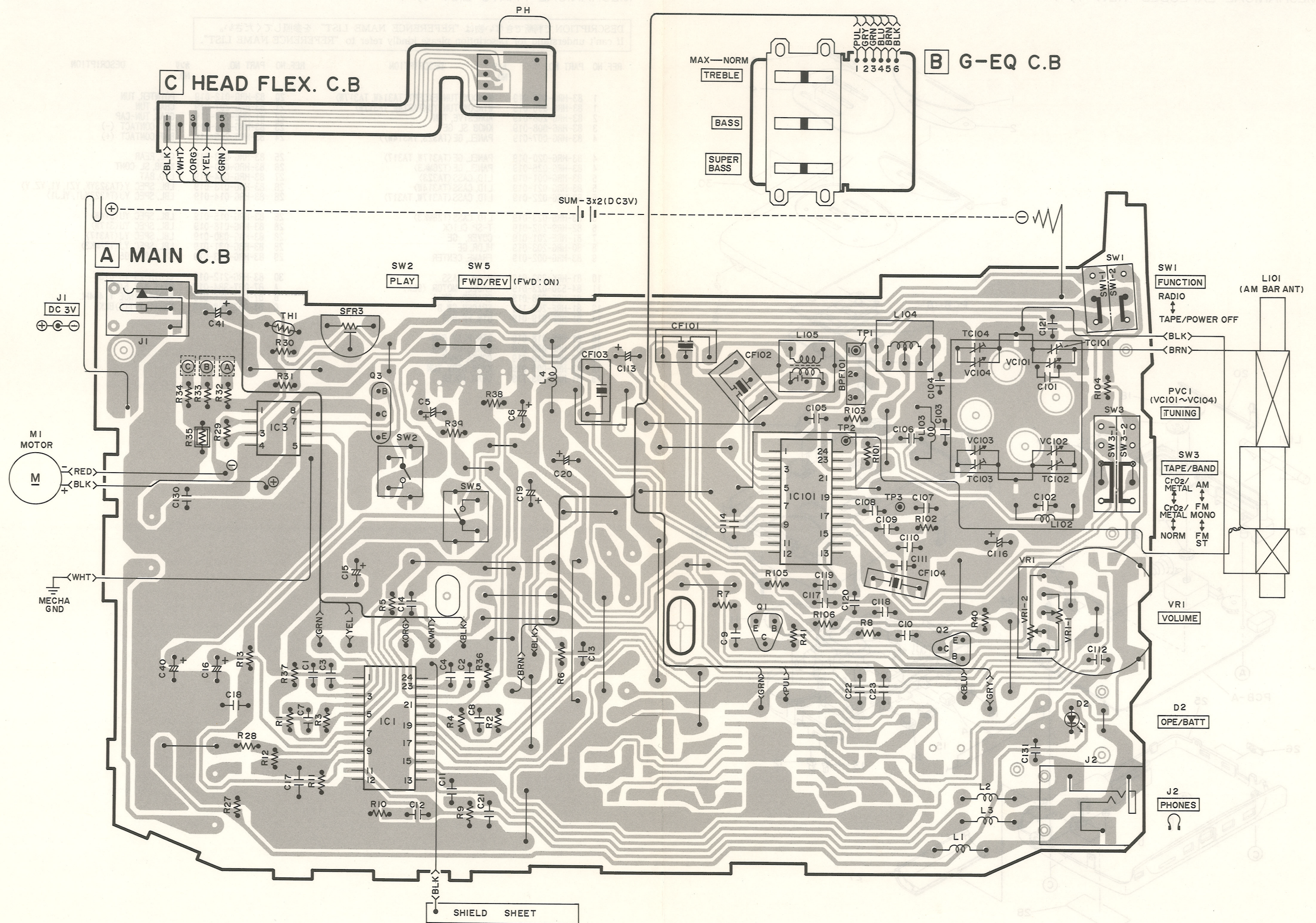
(CrO₂, METAL)

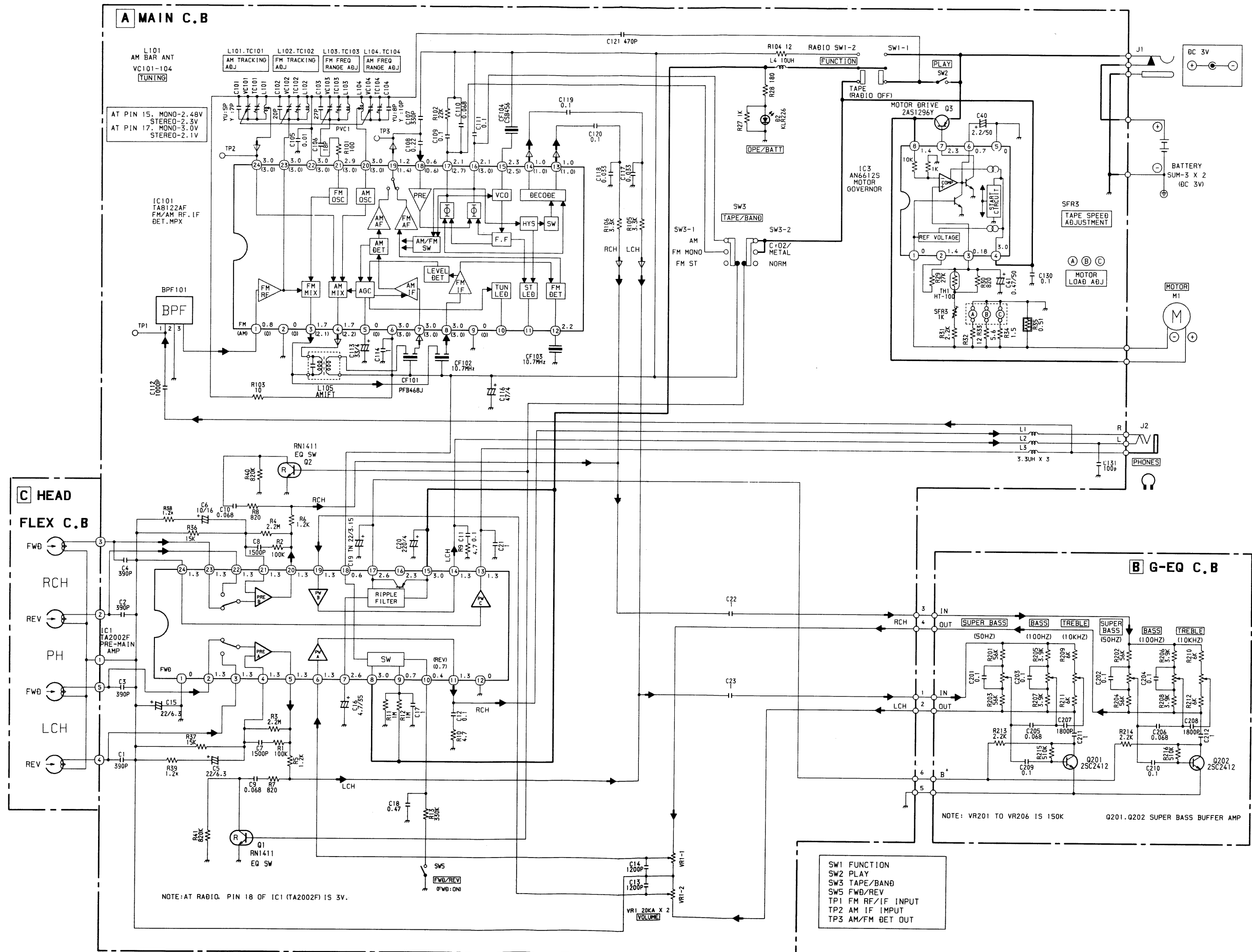
■ ACCESSORIES/PACKAGE LIST

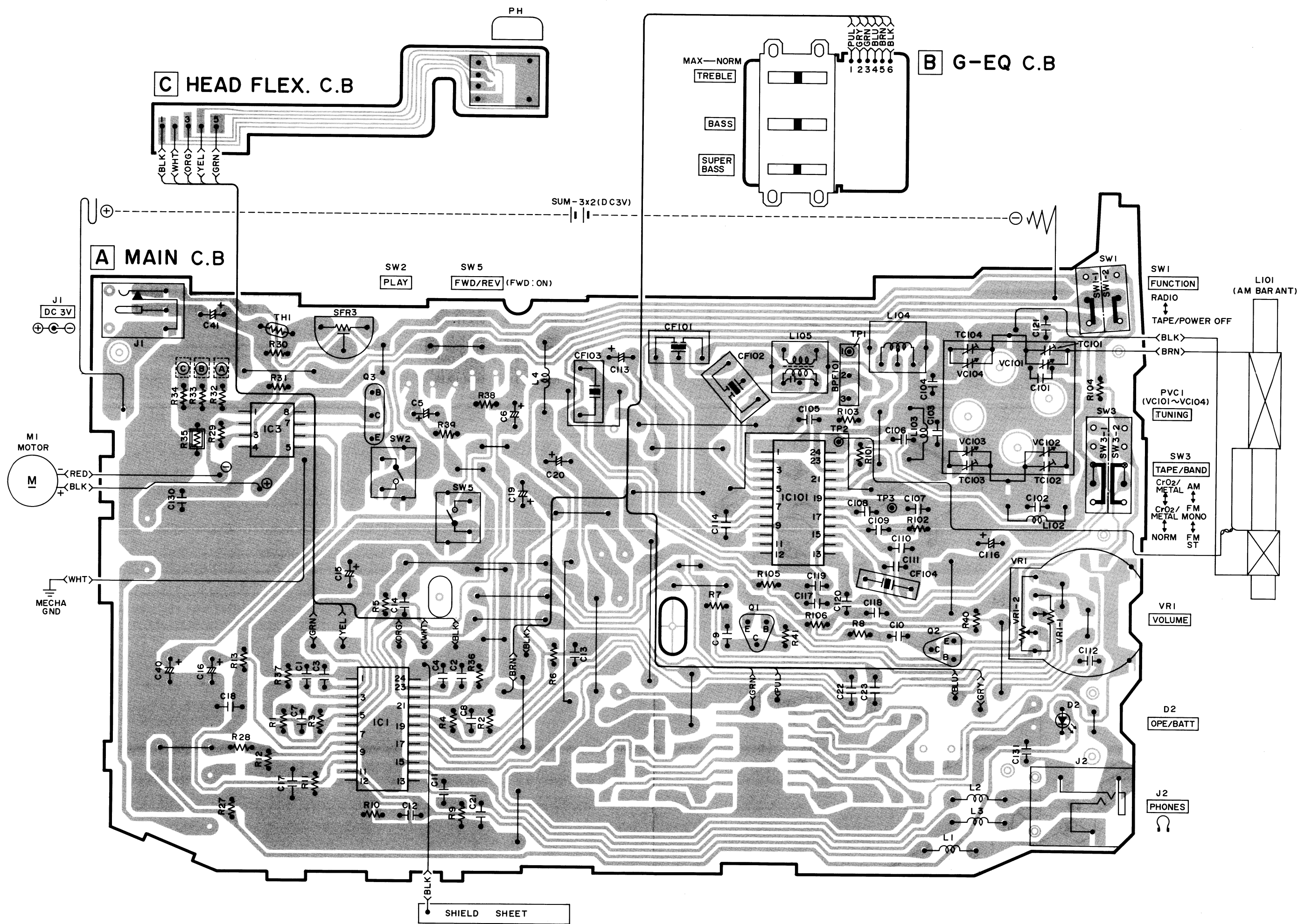
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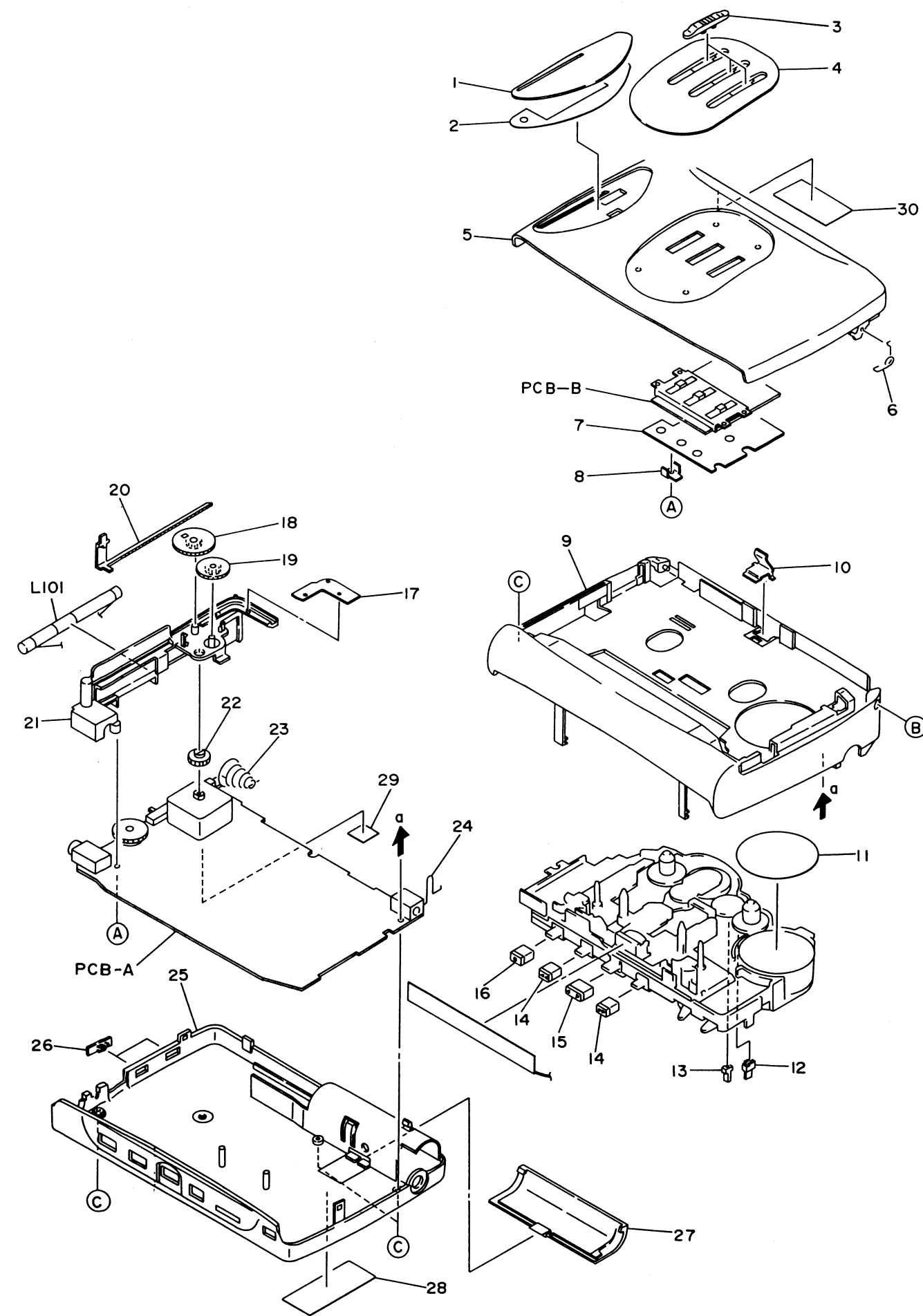
REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	83-HRG-901-019		IB, Y
2	87-048-226-019		HP-M16A(YU, YK, YZ, Y)
3	87-048-238-019		HP-23NA(YZ1, Y1, YJ1, YLJ1)
4	87-080-043-019		CLIP, BELT ASSY







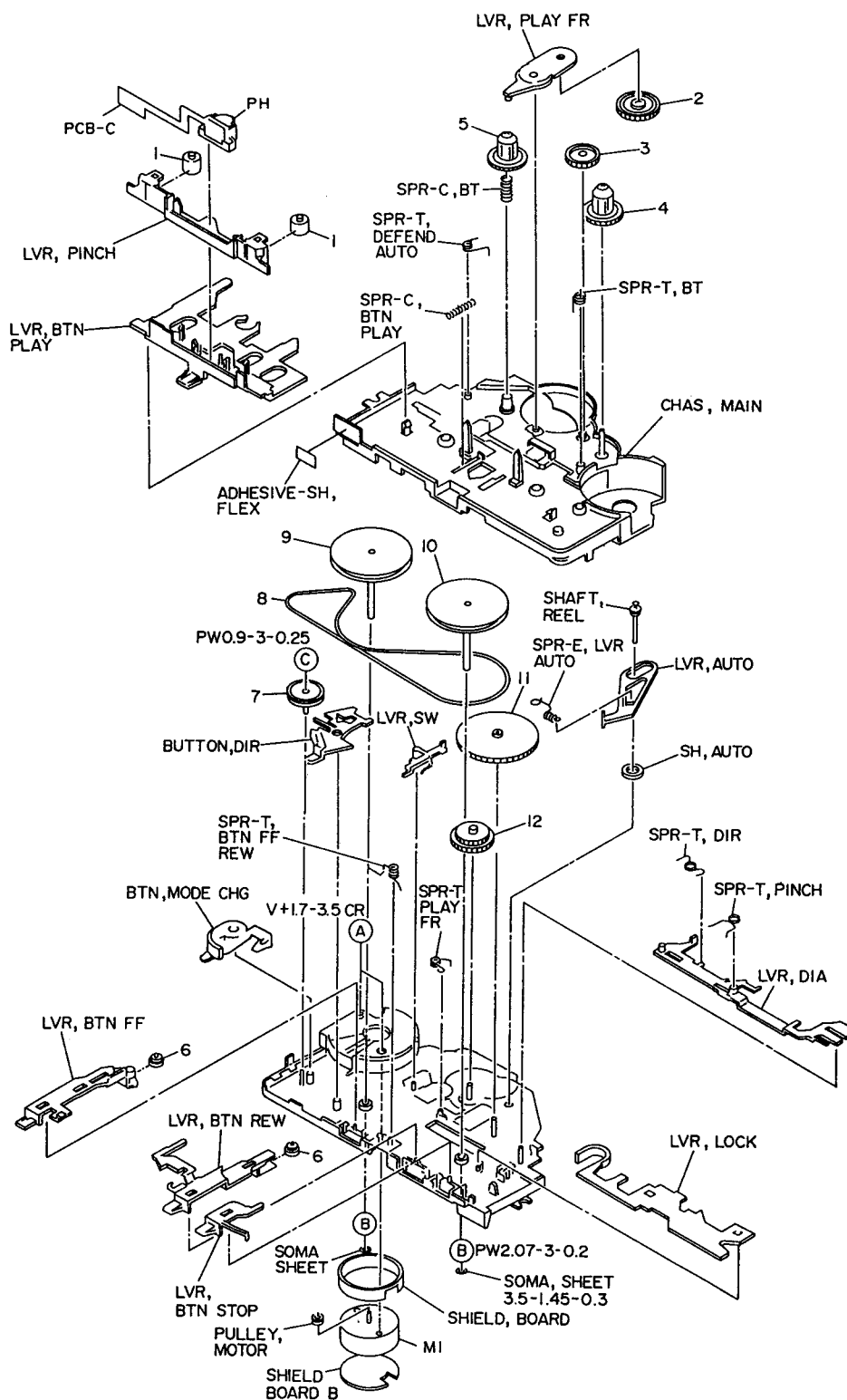




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REF. NO	PART NO.	カソ NO.	DESCRIPTION	REF. NO	PART NO.	カソ NO.	DESCRIPTION
1	83-HRG-005-019		WINDOW, TUN (EXCEPT TA314W, TA317W)	20	83-HRG-012-019		POINTER, TUN
1	83-HRG-006-019		WINDOW, TUN YU (TA314W, TA317W)	21	83-HRG-201-019		CHAS, TUN
2	83-HRG-208-019		ADHESIVE, TUN	22	81-HRE-204-119		GEAR, TUN-CAP
3	83-HRG-008-019		KNOB SL GE	23	83-HRG-206-019		BAT-CONTACT (-)
4	83-HRG-007-019		PANEL, GE (TA323, TA314W)	24	83-HRG-205-019		BAT-CONTACT (+)
4	83-HRG-020-019		PANEL, GE (TA317W, TA317)	25	83-HRG-003-019		CAB, REAR
4	83-HRG-026-019		PANEL, GE (T28MK3)	26	83-HRG-010-019		KNOB, SL CONT
5	83-HRG-001-019		LID, CASS (TA323)	27	83-HRG-004-019		LID, BAT
5	83-HRG-021-019		LID, CASS (TA314W)	28	83-HRG-013-019		LBL, SPEC Y (TA323YK, YZ1, Y1, YZ, Y)
5	83-HRG-022-019		LID, CASS (TA317W, TA317)	28	83-HRG-014-019		LBL, SPEC YJ (TA323YJ1, YLJ1)
5	83-HRG-023-019		LID, CASS (T28MK3)	28	83-HRG-015-019		LBL, SPEC YU (314W)
6	82-HR9-202-019		T-SP, CLICK	28	83-HRG-018-019		LBL, SPEC YU (317W)
7	81-HRE-201-019		COVER, GE	28	83-HRG-030-019		LBL, SPEC YJ (TA317)
8	80-HRG-203-019		HLDR, GE	28	83-HRG-031-019		LBL, SPEC YJ (T28MK3)
9	83-HRG-002-019		FRAME, CENTER	29	83-HRG-213-019		SH 8-8-0.05
10	81-HRK-202-019		P-SP, CASS	30	83-HRG-212-019		CLOTH 25-13-0.35
11	84-530-023-019		LABEL, MOTOR (BLK)	A	87-067-384-019		VT+1. 4-3. 5(HL)
12	81-HRE-208-019		SPACER, SW A	B	87-067-756-019		SCREW HINGE 1. 4-4HL
13	81-HRE-209-119		SPACER, SW B	C	87-067-768-019		VT2+1. 7-7(3)BLK
14	81-HRE-019-019		BTN, FF RAW				
15	81-HRE-018-019		BTN, PLAY RAW				
16	81-HRE-020-019		BTN, STOP RAW				
17	83-HRG-210-019		COVER, CHAS				
18	83-HRG-009-019		KNOB, RTRY TUN				
19	81-HRE-203-119		GEAR, IDLER				

TAPE MECHANISM EXPLODED VIEW 1/1



TAPE MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カソ NO.	DESCRIPTION	REF. NO	PART NO.	カソ NO.	DESCRIPTION
1	80-ZM2-228-010		PINCH ROLLER ASSY	6	80-ZM2-256-110		GEAR, FF REW
2	80-ZM2-224-010		GEAR, PLAY FR	7	80-ZM2-231-010		PULLEY, BELT
3	80-ZM2-225-010		GEAR, MIRROR	8	80-ZM2-240-010		BELT, SQ 0.75-244
4	80-ZM2-222-010		REEL TABLE, F	9	80-ZM2-262-010		FLY-WHL ASSY, FM
5	80-ZM2-223-010		REEL TABLE, R	10	80-ZM2-216-010		FLY-WHL ASSY, R
				11	80-ZM2-227-110		GEAR, AUTO
				12	80-ZM2-218-010		GEAR ASSY, SLIP

REFERENCE NAME LIST ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ モラコン	SERGESUPPRESSOR CAP, CERA

サービス技術ニュース	
番号	連絡内容
G - -	
G - -	
G - -	

アイワ株式会社
AIWA CO.,LTD.

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTORL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOADING MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアム	ARM, SHAFT
ジグガイド	GUIDE, SHAFT
ストラップ	STRAP
トクバ	S-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビススレート	SCRW, SERRART

737004, 750038

Tokyo Japan